

Claims

- [c1] 1.A connector interface for connecting to a cylindrical female connector body having an outer diameter surface and a bore with an inner diameter surface, comprising:
a male connector body with a plurality of spring fingers biased for an interference fit upon the outer diameter surface;
a front end portion of a sleeve of the male connector body adapted to insert within the bore; and
a first spring located on an outer diameter of the sleeve.
- [c2] 2.The connector interface of claim 1, wherein the first spring is located by a first groove formed in the outer diameter of the sleeve.
- [c3] 3.The connector interface of claim 1, wherein the first spring is a canted coil spring.
- [c4] 4.The connector interface of claim 1, wherein the first spring is dimensioned whereby the first spring elastically deforms between the sleeve and the inner diameter surface upon mating of the male connector body with the female connector body.

- [c5] 5.The connector interface of claim 1, further including a second groove located around the plurality of spring fingers; and
a second spring positioned in the second groove biasing the plurality of spring fingers inward.
- [c6] 6.The connector interface of claim 1, wherein the female connector is one of an SMA and a Type N connector.
- [c7] 7.The connector interface of claim 1, wherein the female connector has a third groove located on the inner diameter surface; the third groove adapted to align with the first groove when the male connector body is seated against the female connector.
- [c8] 8.The connector interface of claim 1, further including an inner conductor contact positioned coaxially within a sleeve bore by an insulator.
- [c9] 9.The connector interface of claim 1, wherein each of the plurality of spring fingers has an angled face.
- [c10] 10.The connector interface of claim 1, wherein the sleeve is formed as a separate component press-fit into place within the male connector body.
- [c11] 11.The connector interface of claim 9, wherein the sleeve is press-fit within the male connector body up to an in-

ternally projecting shoulder of the male connector body.

- [c12] 12.A connector interface between a female connector and a male connector, comprising:
a plurality of spring fingers formed in a leading edge of the male connector;
a sleeve within the male connector; and
a first spring on an outer diameter of the sleeve;
the plurality of spring fingers biased to engage an outer diameter surface of the female connector;
the sleeve adapted for insertion within a bore of the female connector whereby the spring is deformed between the sleeve and an inner diameter surface of the bore.
- [c13] 13. The connector interface of claim 11, wherein the first spring is located by a first groove formed in an outer diameter of the sleeve.
- [c14] 14.The connector interface of claim 11, further including a second groove located on an outer diameter of the male connector, around the plurality of spring fingers.
- [c15] 15.The connector interface of claim 11, wherein a third groove adapted to engage the first spring is located on the inner diameter surface of the bore.
- [c16] 16.The connector interface of claim 14, further including a second spring seated in the third groove; the second

spring further biasing the spring fingers towards the outer diameter surface of the female connector.

[c17] 17.The connector interface of claim 11, wherein the female connector is one of an SMA and a Type N connector.